AMENDMENTS TO THE CLAIMS

Please amend claims 1, 13, 19, 21 and 26.

Please cancel claims 14, 20 and 28.

Please add new claims 29-32.

This listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for capturing in-vivo images, the method comprising:

capturing an in-vivo image using an autonomous in vivo device, said device comprising a housing containing an imager, a detector, an illumination device and a transmitter; ~~and~~

overlaying a non-linear scale on the in-vivo image; and

calculating a size of an object within the image, wherein said calculation is based on illumination intensity of said illumination device.

2. (Original) The method of claim 1, comprising displaying the image.

3. (Original) The method of claim 1, wherein the step of overlaying the scale is performed at a processing device external to an in-vivo device.

4. (Original) The method of claim 1, wherein the steps of overlaying the scale and capturing the images are performed at an in-vivo device.

5. (Original) The method of claim 1, wherein the scale comprises a set of lines.

6. (Original) The method of claim 1, comprising providing a size estimate of an object contained in an image.

7. (Original) The method of claim 1, wherein said image is captured with a distortion effect.

8. (Original) The method of claim 7, comprising compensating for said distortion effect.

9. (Original) The method of claim 1, comprising estimating a distance between an in-vivo imaging device and an object in said in-vivo image.

10. (Original) The method of claim 1, comprising receiving a first point in said in-vivo image and a second point in said in-vivo image.

11. (Original) The method of claim 10, comprising calculating a distance between said first point and said second point.

12. (Original) The method of claim 10, comprising comparing an object in the image to the scale.

13. (Currently Amended) An in-vivo imaging device comprising:

an imager;

a transmitter; and

a transparent piece, the transparent piece including a non-linear scale.

14. (Canceled).

15. (Original) The device of claim 13, wherein the transparent piece is an optical dome.

16. (Original) The device of claim 13, wherein the transparent piece is a filter.

17. (Original) The device of claim 13, wherein the device is a swallowable capsule.

18. (Original) The device of claim 13, comprising a lens, the lens to produce a distortion effect on images captured by the imager.

19. (Currently Amended) An autonomous in-vivo imaging device comprising:

an imager;

a detector;

a transmitter;

an illumination device; and

a circuit to add a non-linear scale to images collected by the imager and to calculate a size of an object within an image, wherein said calculation is based on illumination intensity of said illumination device.

20. (Canceled)

21. (Currently Amended) A system comprising:

an autonomous in-vivo device, said device comprising a housing containing an imager, a detector, an illumination device and a transmitter; and

a controller to:

receive ~~images~~ an image from ~~an~~ said in-vivo device;

add a non-linear scale to the ~~images~~ image; and

calculate a size of an object within the image, wherein said calculation is performed based on illumination intensity of said illumination device.

22. (Original) The system of claim 21, wherein the controller is to calculate an estimated size of objects in the image.

23. (Original) The system of claim 21, wherein the controller is to compare an object in the image to the scale.

24. (Original) The system of claim 21, wherein the controller is to receive a first point in an in-vivo image and a second point in said in-vivo image, and estimate a distance between the first point and the second point.

25. (Original) The system of claim 21, wherein the controller is to estimate a distance between the in-vivo imaging device and an object in said image.

26. (Currently Amended) A system comprising:

an autonomous in-vivo device, said device comprising a housing containing an imager, a detector, an illumination device and a transmitter; and

a controller to:

receive an image from ~~an~~ said in-vivo device, said image comprising a non-linear scale; and

estimate a distance between the in-vivo imaging device and an object in said image, said estimation performed based on illumination intensity of said illumination device.

27. (Original) The system of claim 26, wherein the controller is to receive a first point in an in-vivo image and a second point in said in-vivo image, and estimate a distance between the first point and the second point.

28. (Canceled)

29. (New) The method of claim 1, wherein said calculation is further based on a reflection coefficient of the object.

30. (New) The method of claim 1, further comprising:

measuring a reflected illumination intensity of the object; and

correlating the reflected illumination intensity to a distance of the object from the device.

31. (New) The method of claim 30, wherein the distance to the object is inversely proportional to its reflection coefficient.

32. (New) The method of claim 1, wherein said calculation is further based on a transparency of GI fluids.